PATENT COOPERATION TREATY

PCT

REC'D 1 4 MAR 2005.

INTERNATIONAL PRELIMINARY EXAMINATION REPORTED

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION Position in Franchism of International Property (Form PCT/IPP A/416)						
PP19766.002 International application No.	International filing date (day/mon	nth/year) Priority date (day/month/year)					
PCT/US03/29167	15 September 2003 (15.09.2003)) 15 September 2002 (15.09,2002)					
International Patent Classification (IPC)							
IPC(7): A61K 39/385, 39/02, 39/09, 39/00 and US Cl.: 424/197.11, 234.1, 244.1, 184.1, 236.1, 831							
Applicant							
CHIRON CORPORATION							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of							
2. This REPORT consists of	a total ofsheets, including the	tills cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of sheets.							
This report contains indica	tions relating to the following ite	tems:					
· I Basis of the report							
II Priority							
III Non-establishme	ent of report with regard to nove	elty, inventive step and industrial applicability					
IV Lack of unity of	invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial							
	applicability, citations and explanations supporting such statement						
	VI Certain documents cited						
VII Certain defects in the international application							
VIII Certain observations on the international application							
		*					
Date of submission of the demand		of completion of this report					
129pril 2004 (12,04,2004	e) 05.	05 March 2005 (05.03,2005) Authorities Bell-Harris for					
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US	S Aug	Authorized officer					
Commissioner for Patents P.O. Box 1450	S. Der	GHERUN BULL-RANDE HI					
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Telephone No. (5:71)272-/600							
orm PCT/IPEA/409 (cover sheet)(July 1998)							



International application No.		
PCT/US03/29167	•	

I.	Basi	s of the report				
1. With regard to the elements of the international application:*						
	\boxtimes	the international application as originally filed.				
		the description:				
		pages 1-31 as originally filed				
		pages NONE, filed with the demand, filed with the letter of,				
	M	the claims:				
		pages 32-34 , as originally filed				
		pages NONE, as amended (together with any statement) under Article 19				
		pages NONE , filed with the demand				
		pages NONE , filed with the letter of				
		the drawings:				
		pages NONE, as originally filed pages NONE, filed with the demand				
		pages NONE, filed with the letter of				
		the sequence listing part of the description:				
		pages NONE, as originally filed				
		pages NONE , filed with the demand pages NONE , filed with the letter of				
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the				
	language in which the international application was filed, unless otherwise indicated under this item.					
	Thes	e elements were available or furnished to this Authority in the following language which is:				
	\sqsubseteq	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).				
	Щ	the language of publication of the international application (under Rule 48.3(b)).				
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing					
	Ш	contained in the international application in printed form.				
		filed together with the international application in computer readable form.				
	Ш	furnished subsequently to this Authority in written form.				
	Ш	furnished subsequently to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished				
4.		The amendments have resulted in the cancellation of:				
		the description, pages NONE				
		the claims, Nos. NONE				
5.	7	the drawings, sheets/fig NONE This report has been established as if (a year of the state of th				
۱ . د		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
*****	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/29167

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims NONE	YES				
	Claims 1-17	NO				
Invention Star (IS)	Oleima NONE	3250				
Inventive Step (IS)	Claims NONE Claims 1-17	YES				
	Cidito A.I.					
Industrial Applicability (IA)	Claims 1-17					
	Claims NONE	NO				
	ompositions or vaccines comprising two or mo	re of GBS1 through GBS689				
protein, such as, CRM197 or tetanus toxoid, in conjug	accines and a method of treating an animal using protein, such as, tetanus toxoid, diphtheria toxo coccal saccharide antigen in the vaccine to be of the stype II or III saccharide antigen covalently gate vaccines and multivalent vaccines. Excause it would have been obvious to one of orcharide antigen conjugate in CHIRON S.P.A's in oduce the instant invention with a reasonable expates are usable in multivalent vaccines, one of sected benefit of producing a multivalent vaccines.	g the compositions or vaccines are id, or CRM197. of GBS serotype Ia, Ib, or III. coupled to a bacterial carrier dinary skill in the art at the time the numunogenic composition or vaccine expectation of success. Given f skill in the art would have been no, which would advantageously				
NEW CITATIONS	••					
		•				
•						
orm PCT/IPEA/409 (Box V) (July 1998)		· · · · · · · · · · · · · · · · · · ·				